 F.A.P. RTE.	SECTION		COUN	ITY	TOTAL	SHEET NO.	
1285	1285 02-00075-00-PV		COOK		161	113	
STA TO STA							
FED. RO	DAD DIST. NO	ILLIN	DIS FED	. AID	PROJECT		

CONTRACT NO. 63083

APPLICATION:

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPARATELY MOUNTED SERVICE EQUIPMENT.

NOTES:

-UTILITY POLE, PRIMARY CUT-OUTS TRANSFORMER(S) (AS APPLICABLE) BY THE UTILITY-THE CONTRACTOR TO COORDINATE AS REQUIRED

-PROVIDE ADEQUATE SLACK FOR DRILL LOOP AND CONNECTION BY THE UTILITY

CONDUIT/CONDUCTOR SEALING BUSHING,

SIZE AND CONDUCTOR CONFIGURATION TO MATCH SERVICE. O.Z. GEDNEY TYPE CSBG OR APPROVED EQUAL, COMPLETE WITH

LOCKING COLLAR (SEE DETAIL THIS SHEET)

-HEAVY DUTY GROUND CLAMP-UNIVERSAL U-CLAMP TYPE, BY O.Z. GEDNEY, T&B OR APPROVED EQUAL

XX:

36"

N O

30,

(NOTE 6)

-HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY

-FXTENSION TO

SERVICE EQUIPMENT

-2 HOLE STRAP FOR RIGID CONDUIT, ZINC PLATED STEEL O.Z. GEDNEY TYPE TH-1800 OR APPROVED EQUAL

ATTACHED WITH LAG SCREWS (TYP.)

-RIGID GALVANIZED THREADED COUPLING

-PVC COATED, RIGID CONDUIT ELBOW 24" RADIUS (MIN.) (NOTE 3)

THREADED TRANSITION COUPLING,

AS APPLICABLE (NOTE 6)

CUSTOMER SERVICE RISER GROUND ELECTRODE

5/8" x 10'-0" COPPERCIAD GROUND ROD IN UNDISTURBED SOIL. (NOTE 5)

NOT LESS THAN 24" FROM POLE, UNLESS APPROVED BY THE ENGINEER

ELECTRIC SERVICE INSTALLATION DETAIL

-PVC COATED, RIGID CONDUIT NIPPLE OR CONDUIT EXTENSION, LENGTH AS REQUIRED

-RIGID STEEL CONDUIT RISER CONTINUOUS 10'-0" LENGTH

-NON-METALLIC "U" GUARD. FURNISH FOR INSTALLATION

BY ELECTRIC UTILITY,

LENGTH AS REQUIRED

UTILITY GROUND CONNECTION-

UTILITY GROUND -

(AS APPLICABLE) BY UTILITY

NOT TO SCALE

(AS APPLICABLE) BY UTILITY

GRADE-

GROUNDING ELECTRODE CONDUCTOR,

BARE COPPER, #1/0 AWG (MIN.)

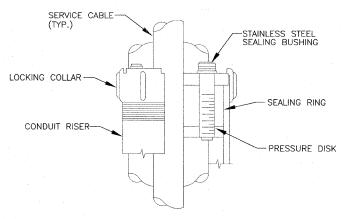
EXOTHERMIC WELD CONNECTION-

UTILITY GROUNDING ELECTRODE-

(AS APPLICABLE) BY UTILITY

(TYP.)

- 1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE ON THE DRAWINGS.
- 2. UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE "ELECTRIC UTILITY SERVICE INSTALLATION" PAY ITEM.
- 3. CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- 4. PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATABLE PVC TOUCH—UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- 5. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- 6. THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC—COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALLIC TO NON—METALLIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- 7. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT AND DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION AND SHALL BE INCLUDED IN THE "ELECTRIC UTILITY SERVICE INSTALLATION" PAY ITEM.



2 SEALING BUSHING DETAIL
NOT TO SCALE

McDonough Associates Inc Engineers/Architects DI ...40

DRAWN BY RRA

CHECKED BY KMY

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	REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
1	NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION	
Į.			VILLAGE OF PALATINE	
			PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION	
. 1			SMITH STREET TO US 14 (NORTHWEST HIGHWAY)	
			ELECTRICAL SERVICE	
			INSTALL ATION DETAILS	

SCALE: VERT. HORIZ. N.T.S.

DATE OCTOBER 19, 2009